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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/087,414	03/01/2002	Chad Yau	A-70834/MAK	3442	
	590 03/25/2003				
Michael A. Ka			TOTAL OF		
Flehr Hohbach Test Albritton & Herbert LLP	EXAMINER				
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Four Embarcade	ero Center	THAI, LUAN C			
San Francisco, (an Francisco, CA 94111-4187		ART UNIT	PAPER NUMBER	
			2827		
		DATE MAIL ED: 02/25/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	,	Application No.	Applicant(s)				
	Office Action Summary	10/087,414	YAU, CHAD				
	,	Examiner	Art Unit				
	The MAILING DATE of this communication and	Luan Thai	2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status						
	1) Responsive to communication(s) filed on $31 J_{3}$	Responsive to communication(s) filed on <u>31 January 2003</u> .					
	2011 This or some	s action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
	4) \boxtimes Claim(s) <u>1-12</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1,3-5,9 and 11</u> is/are rejected.						
	7)⊠ Claim(s) <u>2,6-8,10 and 12</u> is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
	9) The specification is objected to by the Examiner.						
	10)⊠ The drawing(s) filed on <u>01 March 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
	If approved, corrected drawings are required in reply to this Office action.						
	12)☐ The oath or declaration is objected to by the Examiner.						
F	Priority under 35 U.S.C. §§ 119 and 120						
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	a) \square The translation of the foreign language provisional application has been received						
	Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121						
	taciment(s)	30 120	 				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:							
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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group II, claims 1-12, in Paper No. 3 are acknowledged.
- 2. Claims 13-20 have been canceled (paper No. 3).

Oath/Declaration

The declaration filed 03/01/02 is acceptable.

Claim Objections

Claim 9 is objected to because of the following informalities:

The recitations "CE" in claim 9, should be changed to -CS--.

In claim 1, line 15, the recitation "units" should be changed to -unit--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1, 3-5, 9 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (6,242,285, applicant admitted prior art).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1, 3-5, 9 and 11, Kang (see specifically figures 3, 4A-4B-4D-4E) discloses a method for forming a stacked package of an upper semiconductor unit IC-B and a lower semiconductor unit IC-A having identical lead layouts, the method comprising: (a) flattening leads of the upper semiconductor package unit IC-B (Col. 4, lines 10+ and lines 40+); (b) shortening a length of a chip-select lead (CS) of the upper package unit IC-B such that this chip-select lead does not contact a lead of the lower package unit when the upper package unit is stacked atop the lower package unit in the same orientation (see figure 4A, Col. 3, lines 60+, Col. 6, lines 42+, lines 66+, Col. 7, lines 1+); (c) stacking the upper package unit IC-B on the lower package unit IC-A in the same orientation (Col. 6, lines 20+); (d) forming a direct electrical connection between the chip-select lead (CS) and a not-connected lead (NC) as shown in figure 4D (Col. 7, lines 22+); and (e) forming direct electrical connections between leads of the upper package unit and corresponding leads of the lower package unit by soldering, excluding the chip-select lead CS (Col. 6, lines 3+ and lines 21+).

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Allowable Subject Matter

7. Claims 2, 6-8, 10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art taken either singly or in combination fails to anticipate or fairly suggest:

- a) a method step of forming the direct electrical connection by soldering the two leads of the upper semiconductor package unit, as recited in claims 2 and 6,
- b) a method step of forming a direct electrical connection between a clockenable lead and not-connected lead of the upper semiconductor package unit, as recited in claims 7 and 8,
- c) a method step of shortening a length of a clock-enable lead of the upper semiconductor package unit, as recited in claim 10, and
- d) a method step of forming direct electrical connections between leads of the upper package unit and corresponding leads of the lower package unit excluding selecting the *clock-enable lead*, as recited in claim 12, especially when these limitations are considered within the specific combination claimed.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Luan Thai

March 24, 2003

Thadron